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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/805,576	03/19/2004	Jan Weber	03-237	9259
2777. T599 11/25/2098 MAYER & WILLIAMS PC 251 NORTH AVENUE WEST			EXAMINER	
			STEWART, ALVIN J	
2ND FLOOR WESTFIELD.	NJ 07090		ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/805,576 WEBER ET AL. Office Action Summary Examiner Art Unit Alvin J. Stewart 3774 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 23 October 2007. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2.4-35 and 37-41 is/are pending in the application. 4a) Of the above claim(s) 2.8.14 and 32 is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1,4-7, 9-13, 15-31, 33-35 and 37-41 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 19 March 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application (PTO-152) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date \_

6) Other:

Application/Control Number: 10/805,576 Page 2

Art Unit: 3774

## Response to Arguments

Applicant's arguments filed 10/23/07 have been fully considered but they are not persuasive.

First the Examiner does not make the Office Action final because the arguments with respect to independent claim 12 are persuasive. Claim 12 only disclose a ceramic region and not a metallic region. Therefore, Pacetti et al does not disclose a stent made of a ceramic region. However, the Examiner is using a new reference in order to clarify and show that stents are capable of being made of ceramic.

With respect to the rest of the independent claims, the Examiner believes that the rejections are proper because of the following:

Pacetti et al clearly discloses a metallic stent having a plurality of depressions covered with a plurality of polymeric layers that biodegrade when the coating is in contact with the patient's blood and having therapeutic agents disposed within the depression beneath the multilayer coating region.

Sheu discloses an implant having a substrate made of metal, ceramic, etc..(see col. 2, lines 55-57 & col. 4, lines 27-33) covered by a polymeric layer having polyelectrolytes that are biodegradable.

Therefore, the Examiner is combining these two references (Pacetti & Sheu) in order to replace the bioabsorbable polymeric layer of the Pacetti reference with the polyetectrolyte layer of the Sheu reference in order to improve the hydrophilic characteristics in an aqueous environment. As shown by the Sheu et al reference, the polyelectrolytes can be applied to contact lenses, bone replacement components, prosthesis, implantable articles, etc...

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4-7, 9, 10, 20-30, 33-34 and 37-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pacetti et al US Patent 6,663,662 B2 in view of Sheu et al US Patent 5,837,377 A.

Pacetti et al discloses a stent comprising a metallic region whose surface comprises a plurality of depressions (24), a mutilayer coating region of multiple polymeric layers (28, see col. 17, lines 65-67 and col. 18, lines 1-9; col. 18, lines 58-67; and col. 19, lines 15-28) deposited over the surface and a therapeutic agent disposed beneath or within the layers. However, Pacetti et al does not disclose a polyelectrolyte layers covering a stent.

Sheu et al teaches a medical platform having a plurality of polyelectrolyte layers for the purpose of having water soluble biocompatible polymers covering a medical device (see col. 1, lines 19-27). Additionally, Sheu et al teaches a plurality of polyelectrolyte layers capable of having different layers with different net charges opposite in sign from the adjacent layers (see col. 7, lines 11-16; lines 28-33; and lines 40-51).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the material property of the polymeric cover of the Pacetti et al reference with the water soluble multiple polymeric polyelectrolyte layers having different net charges in order to create a more versatile, biocompatible surface capable of being absorbed by water.

Claims 12, 13 and 15-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pacetti et al US Patent 6,663,662 B2 in view of Sheu et al US Patent 5,837,377 A and Amon et al US Patent 5,735,896.

Pacetti et al in view of Sheu disclose the invention substantially as claimed. However, Pacetti et al does not disclose a stent made of a ceramic surface.

Amon et al teaches a stent made of metal or ceramic for the purpose of expanding an occluded blood vessel (see col. 1, lines 11-15).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Pacetti et al reference by having a stent made of ceramic material in order to promote the biocompatibility of the implant and try to avoid any rejection by the body.

Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pacetti et al US Patent 6,663,662 B2 in view of Sheu et al US Patent 5,837,377 A and further in view of Anderson et al US Patent pub. 2005/0172852 A1.

Pacetti et al as modify by Sheu et al disclose all the structure limitations as claimed. However, Pacetti et al does not disclose a polyelectrolyte coating having metal oxide nanoparticles.

Anderson et al discloses a coating of metal oxide particles for the purpose of having a porous surface (see paragraph 29).

It would have been obvious to one having ordinary skill in the art at the tiem the invention was made to modify the Pacetti et al reference with the Anderson et al reference in order to create a porous surface.

Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Harish et al US Patent 6,506,437 B1 in view of Sheu et al US Patent 5,837,377 A.

Harish et al discloses the method of making a stent comprising a metallic region whose surface comprises a plurality of depressions (24), a layer coating region deposited over a surface of a stent and a therapeutic agent disposed beneath or within the layers (see Figs. 1 and 4A-4D; see col. 8 through col. 12). However, Pacetti et al does not disclose a polyelectrolyte layers covering a stent.

Sheu et al teaches a medical platform having a plurality of polyelectrolyte layers for the purpose of having water soluble biocompatible polymers covering a medical device (see col. 1, lines 19-27). Additionally, Sheu et al teaches a plurality of polyelectrolyte layers capable of

Page 6

having different layers with different net charges opposite in sign from the adjacent layers (see

col. 7, lines 11-16; lines 28-33; and lines 40-51).

It would have been obvious to one having ordinary skill in the art at the time the

invention was made to modify the step of making the stent of the Harish et al reference with the

water soluble multiple polymeric polyelectrolyte layers having different net charges in order to

create a more versatile, biocompatible surface capable of being absorbed by water.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alvin J. Stewart whose telephone number is 571-272-4760. The

examiner can normally be reached on Monday-Friday 7:00AM-5:30PM(1 Friday B-week off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Dave Isabella can be reached on 571-272-4749. The fax phone number for the

supervisor, Dave Isabena can be reacted on 371-272-4749. The lax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/805,576 Page 7

Art Unit: 3774

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Alvin J Stewart/ Primary Examiner, Art Unit 3774

July 10, 2007.